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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/275,727 03/24/99 DEJONG

A ADAPP091A

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TM02/0829

EXAMINER

TRAN, M

ART UNIT

PAPER NUMBER

2173

DATE MAILED:

08/29/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/275,727

Applicant(s)

DEJONG ET AL.

Examiner

Mylinh T Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 March 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) 22-24 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6,7.
- 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: _____

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-21, drawn to a storage area network management system, classified in class 345, subclass 734.
- II. Claim 22-24, drawn to actual structure of computer, classified in class 731, subclass 1.

The inventions are distinct, each from the other because of the following reasons:

Inventions group I and group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the storage area network management system is directed to other aspect of system operation. The subcombination has separate utility such as the actual structure of computer can be used in environment other than that such for in the storage area network management system.

During a telephone conversation with Mr. Albert S. Penilla on August 15, 2001 a provisional election was made without traverse to prosecute the invention of group I, claims 1-21. Affirmation of this election must be made by applicant in replying to this Office action. Claim 22-24 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Drawings

The drawings are objected to because figure 21 is not clear enough to see. Correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-11 and 13-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wollrath et al.[US. 6,263,350] in view of Leong et al.[US. 6,269,398].

As to claims 1, 18 and 21, Wollrath et al. discloses a storage area network management and configuration system comprising an enterprise network including a plurality of computer systems, wherein some of the plurality of computer systems include a server component (figure 8, 1100), some of the plurality of computer systems include a client component (figure 8, 1000), or both the client component and the server component (figure 8, column 5, lines 46-67 and column 6, lines 1-27); a storage enclosure being connected to a computer system having at least the server component (column 4, lines 54-67). The difference between the claim and Wollrath et al. is a graphical user interface provided by the client component, the graphical user interface provides a graphical representation and icon links to configuration tools for controlling the storage enclosure. Leong et al. shows the graphical user interface provides a graphical representation and icon links to configuration tools for controlling the storage enclosure (column 4, lines 3-21). It would have been obvious to one of ordinary skill in the art, having the teachings of Wollrath et al. Leong et al. before them at the time the invention was made to modify the plurality of computer systems including the server component

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and client component taught by Wollrath et al. to include the graphical user interface of Leong et al., because of providing a network manager to easily view the status of a router and issue commands and to allow for "iconifying" a router network management session allowing true, at a glance, review of the status of a router as taught by Leong et al.

As to claim 2, Leong et al. shows an array modifier link for selecting a RAID array that is desired to be modified in terms of adjusting a drive selection and RAID level (column 7, lines 61-67 and column 8, lines 1-12).

As to claim 3, Leong et al. teaches an array builder link, the array builder link when selected provides selection tabs to allow array building from an array template or from scratch (figure 2, 101, 102 and column 7, lines 15-35).

As to claim 4, Wollrath et al. also discloses selecting hardware to configure, the hardware to configure is selected from the storage enclosure or from additional storage enclosures that are connected to the enterprise network (figure 7, column 10, lines 41-65), selecting an array template that contains a RAID configuration scheme that is 10 optimally selected for a particular storage application (column 14, lines 9-36) and Leong et al. also teaches dragging the selected array template, that is in the form of an icon, over the selected hardware or dragging the selected hardware over the selected array template, the dragging is configured to automatically apply the RAID configuration scheme (column 11, lines 5-40).

As to claim 5, Leong et al. shows a-RAID level, a number of drives in the selected hardware, a number of spare drives, a stripe size and an array address (column 8, lines 23-44).

As to claim 6, Leong et al. teaches an enterprise monitor link, when selected the monitor link provides a window wherein monitoring settings can be set (column 10, lines 23-33).

As to claim 7, Leong et al. discloses a failure indicator and a disk capacity indicator (column 10, lines 63-67 and column 11, lines 1-5).

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As to claim 8, Leong et al. teaches a temperature indicator for the storage enclosure, a battery health indicator and a power supply health indicator (column 11, lines 58-67 and column 1-20).

As to claim 9, Leong et al. shows an enterprise monitor window for providing a quick view of selected storage enclosure parameters (column 10, lines 34-42).

As to claim 10, Leong et al. discloses an event notifier link, when selected provides customizable failure and status notifications (column 9, lines 48-62).

As to claim 11, Leong et al. shows setting user notification profiles, the profiles include communication information (column 9, lines 33-42).

As to claim 13, Leong et al. discloses an enterprise icon, when selected allows viewing of the enterprise network that includes the plurality of computer systems and associated storage enclosures that are connected to computer systems having the server component (column 11, lines 6-25).

As to claim 14, Wollrath et al. teaches the viewing of the enterprise network can be of physical devices or logidices, and the physical devices and the logical devices can be displayed in one of a tree view and a quick view (figure 9, column 14, lines 9-59).

As to claim 15, Wollrath et al. shows a graphical failure representation is provided of selected drives of the storage enclosure, the graphical failure representation being configured to be displayed on a failed drive when the failed drive is in a viewable setting and on the storage enclosure when the failed drive is not in the viewable setting (column 13, lines 10-57).

As to claim 16, Wollrath et al. shows wherein the client component provides a user administrator the management and configuration control to the enterprise network (column 11, lines 21-58).

As to claim 17, Wollrath et al. teaches the enterprise network can include a plurality of storage enclosures that are connected to selected computer systems that are part of the enterprise network and that have the server component (column 12, lines 20-67 and column 13, lines 1-8).

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As to claim 19, Wollrath et al. discloses the storage enclosure includes an array of drives (column 12, lines 20-52).

As to claim 20, Leong et al. shows the graphical user interface control includes one or more of an array modifier icon link, an enterprise monitor icon link, an array builder icon link, an event notifier icon link, an unconfigured hardware icon link, a templates icon link, and an enterprise icon link (column 11, lines 6-25 and column 13, lines 25-55).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wollrath.

Although Wollrath et al. discloses the storage area network management and configuration system and the communication information (column 6, lines 29-62), they do not explicitly mention the communication information includes e-mail information and pager information. It is notoriously well known in the state of the art, though, that network communication information including e-mail information and pager information. The examiner takes OFFICIAL NOTICE of this teaching. It would have been obvious to one of ordinary skill in the art, having the teachings of Wollrath et al. before him, to have the communication information of Wollrath et al. to be the communication information includes e-mail information and pager information, as made known in the state of the art.

Conclusion

The prior art made of record on form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. § 1.111 (c) to consider these references fully when responding to this action. The documents cited therein teach the storage area network

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management and configuration system and the communication information the communication information includes e-mail information and pager information.

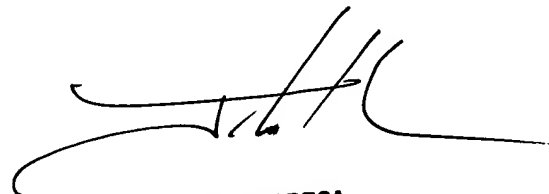
Any inquiry concerning this communications or earlier communications from the examiner should be directed to examiner Mylinh Tran whose telephone number is (703) 308-1304. The examiner can normally be reached on Monday to Friday from 8:00am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached at the number (703) 308-3116. The fax number for this group is (703) 308-9051.

Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 305-3900.

Mylinh Tran

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